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Our Ref.: 20.US1.PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Applicant : COHEN, et al.

Appl. No. : 09/463,075

Filed : January 14, 2000

Title : BIALLELIC MARKERS FOR USE IN CONSTRUCTING
A HIGH DENSITY DISEQUILIBRIUM MAP OF THE
HUMAN GENOME.

Grp./A.U. : 1655

Examiner : B. Sisson

TECH CENTER 1600/2900

JUN 06 2002

RECEIVED

Assistant Commissioner for Patents
Washington, D.C. 20231

AMENDMENT AND RESPONSE

Dear Sir:

Transmitted herewith is an Amendment in connection with the above-identified application. In response to the Office Action dated January 22, 2002, Applicants respectfully request reconsideration in view of the following amendments and remarks. A Petition for a one month extension of time is enclosed herewith.

IN THE CLAIMS:

Please amend claim 86 as follows:

86. (Twice amended) A method of obtaining a plurality of single nucleotide polymorphisms comprising the steps of:
- (a) obtaining a human nucleic acid library comprising a plurality of genomic DNA fragments containing the full human genome or a portion of the human genome comprising at least 100kb of contiguous genomic DNA;
 - (b) determining the order of said plurality of genomic DNA fragments in the genome;
 - (c) sequencing selected regions of said plurality of genomic DNA fragments; and
 - (d) identifying nucleotides in said selected regions which vary between individuals, thereby defining a set of single nucleotide polymorphisms; wherein said plurality of single nucleotide polymorphisms comprises single nucleotide polymorphisms having a